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# 1 [Modern approaches to augmented reality](#)



Oliver Bimber, Ramesh Raskar

July 2006

SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

 Full text available: [pdf\(2.45 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 472, Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

## 2 [Communications of the ACM: Volume 51 Issue 1](#)



January issue Volume 51 Issue 1  
2008

**Publisher:** ACM

Full text available: [pdf\(5.97 MB\)](#) [digital edition\(.00 bytes\)](#)

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 488, Downloads (12 Months): 1076, Citation Count: 0

## 3 [The elements of nature: interactive and realistic techniques](#)



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf  
August SI SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: [pdf\(17.65 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 70, Downloads (12 Months): 1351, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

## 4 [Seeing, hearing, and touching: putting it all together](#)



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink  
August SI SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: [pdf\(20.64 MB\)](#)

Additional Information: [full citation](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 80, Downloads (12 Months): 1429, Citation Count: 2


## 5 Projectors: advanced graphics and vision techniques



Ramesh Raskar

August SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available:  [pdf\(6.53 MB\)](#)

**Additional Information:** [full citation](#), [cited by](#)


**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 658, Citation Count: 1

## 6 Level set and PDE methods for computer graphics



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker  
August SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available:  [pdf\(17.07 MB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 57, Downloads (12 Months): 1145, Citation Count: 4

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the ...


## 7 Modern approaches to augmented reality



Oliver Bimber, Ramesh Raskar

July 2005 SI GGRAPH '05: ACM SIGGRAPH 2005 Courses

**Publisher:** ACM

Full text available:  [pdf\(48.93 MB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 407, Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

## 8 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

**Publisher:** ACM

Full text available: [pdf\(20.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 37, Downloads (12 Months): 664, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent ...

## 9 [Modern approaches to augmented reality](#)



**Video files associated with this course are available from the citation page**

Oliver Bimber, Ramesh Raskar

August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses

**Publisher:** ACM

Full text available: [pdf\(46.17 MB\)](#)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 85, Downloads (12 Months): 1080, Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

## 10 [Real-time volume graphics](#)



Klaus Engel, Markus Hadwiger, Joe M. Kniss, Aaron E. Lefohn, Christof Rezk Salama, Daniel Weiskopf

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

**Publisher:** ACM

Full text available: [pdf\(7.63 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 59, Downloads (12 Months): 548, Citation Count: 0

The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering volume data in scientific visualization, the interest in applying these techniques ...

## 11 Self



David Ungar, Randall B. Smith

June HOPL III: Proceedings of the third ACM SIGPLAN conference on History of  
2007 programming languages

**Publisher:** ACM

Full text available: pdf(1.70



**Additional Information:** [full citation](#), [appendices and supplements](#),

[abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 473, Citation Count: 0

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team ...

**Keywords:** Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

## 12 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: pdf(63.03



**Additional Information:** [full citation](#), [abstract](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 105, Downloads (12 Months): 1279, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

### 13 [Point-based computer graphics](#)



Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker  
August 2004  
SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes

**Publisher:** ACM

Full text available: [pdf\(8.94 MB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 504, Citation Count: 3

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research ...

### 14 [Kernel Methods for Measuring Independence](#)

Arthur Gretton, Ralf Herbrich, Alexander Smola, Olivier Bousquet, Bernhard Schölkopf  
December 2005  
The Journal of Machine Learning Research, Volume 6

**Publisher:** MIT Press

Full text available: [pdf\(569.46 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 109, Citation Count: 4

We introduce two new functionals, the constrained covariance and the kernel mutual information, to measure the degree of independence of random variables. These quantities are both based on the covariance between functions of the random variables in ...

### 15 [Pointer analysis for structured parallel programs](#)



Radu Rugina, Martin C. Rinard  
January 2003  
ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 1

**Publisher:** ACM

Full text available: [pdf\(383.29 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 58, Citation Count: 1

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel ...

**Keywords:** Pointer analysis

## 16 Undo as concurrent inverse in group editors



Chengzheng Sun

December 2002 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 9 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(814.03 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 84, Citation Count: 15

As an important mechanism for error recovery and exploration of alternatives in interactive and collaborative applications, an undo facility should have the capability of undoing any operation at any time. However, supporting undo in collaborative applications ...

**Key words:** Group undo, REDUCE, collaborative applications, computer-supported cooperative work, concurrency control, consistence maintenance, distributed systems, operational transformation

## 17 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 9



Issue 4

October 2005 issue Volume 9 Issue 4

**Publisher:** ACM

**Additional Information:** [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

## 18 Summary in context: Searching versus browsing



Daniel M. McDonald, Hsinchun Chen

January 2006 1 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(530.99 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 282, Citation Count: 0

The use of text summaries in information-seeking research has focused on query-based summaries. Extracting content that resembles the query alone, however, ignores the greater context of the document. Such context may be central to the purpose and meaning ...

**Key words:** Summarization, browse, generic summaries, indicative summaries, information seeking, natural language processing, search, text processing

## 19 [Kernel independent component analysis](#)

Francis R. Bach, Michael I. Jordan

March The Journal of Machine Learning Research, Volume 3  
2003

**Publisher:** MIT Press

Full text available:  [pdf\(561.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 175, Citation Count: 38

We present a class of algorithms for independent component analysis (ICA) which use contrast functions based on canonical correlations in a reproducing kernel Hilbert space. On the one hand, we show that our contrast functions are related to mutual information ...

**Key words:** Stiefel manifold, blind source separation, canonical correlations, gram matrices, incomplete Cholesky decomposition, independent component analysis, integral equations, kernel methods, mutual information, semiparametric models

## 20 [MPEG-4: an object-based multimedia coding standard supporting mobile applications](#)

Atul Puri, Alexandros Eleftheriadis

June Mobile Networks and Applications, Volume 3 Issue 1  
1998

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(747.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 217, Citation Count: 7

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes ...

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